

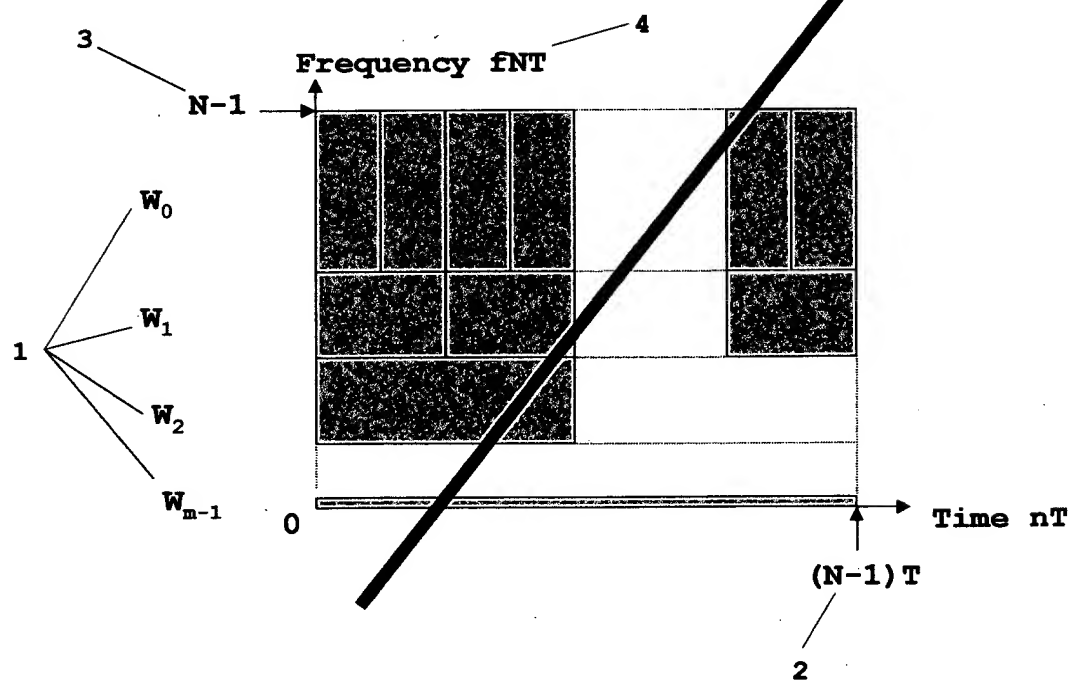
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DRAWINGS AND PERFORMANCE DATA

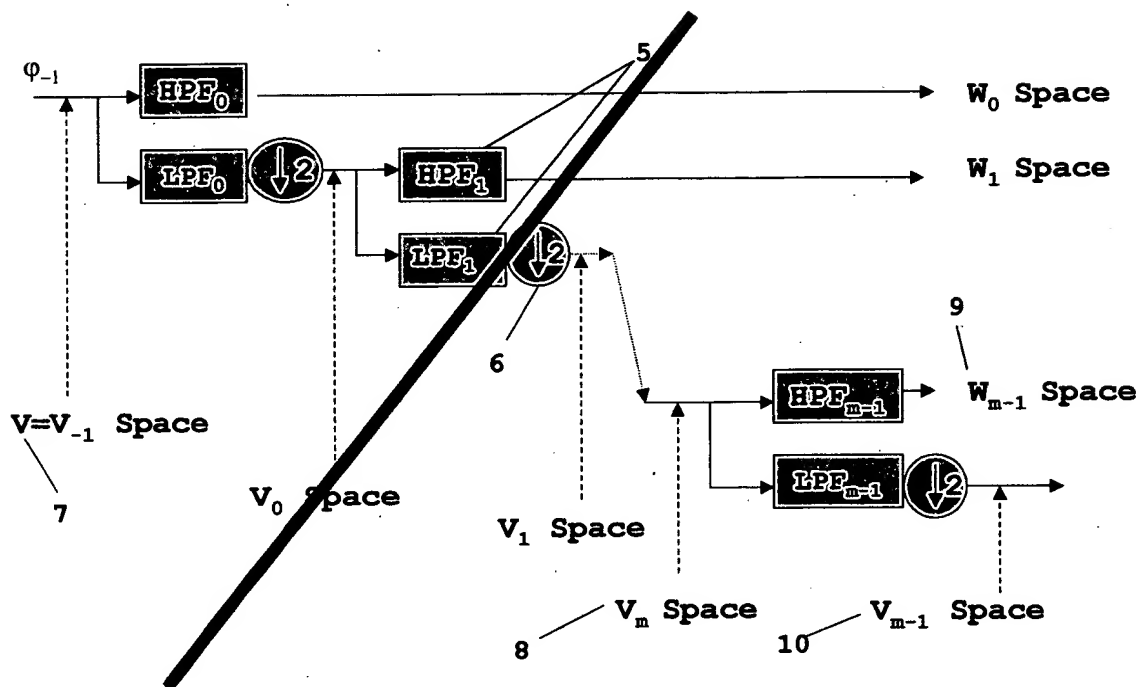
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FIG. 1 Wavelet Tiling of an N-Point Digital t-f Space



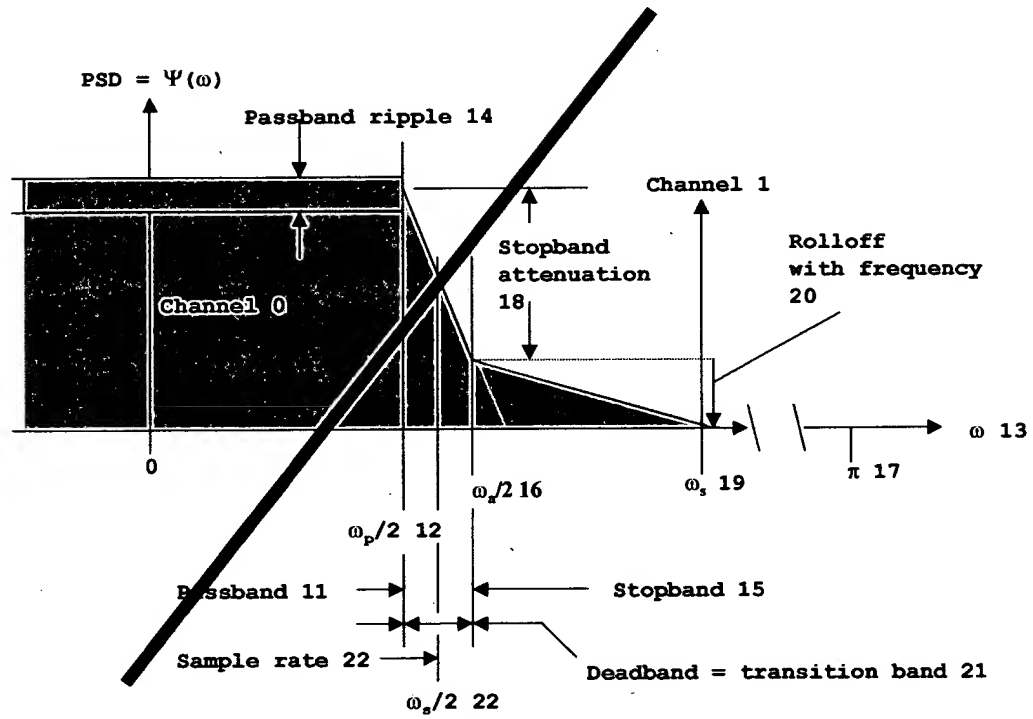
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FIG. 2 Wavelet Iterated Filter Bank for Tiling t-f
Space in FIG. 1



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FIG. 3 PSD Requirements for Communications



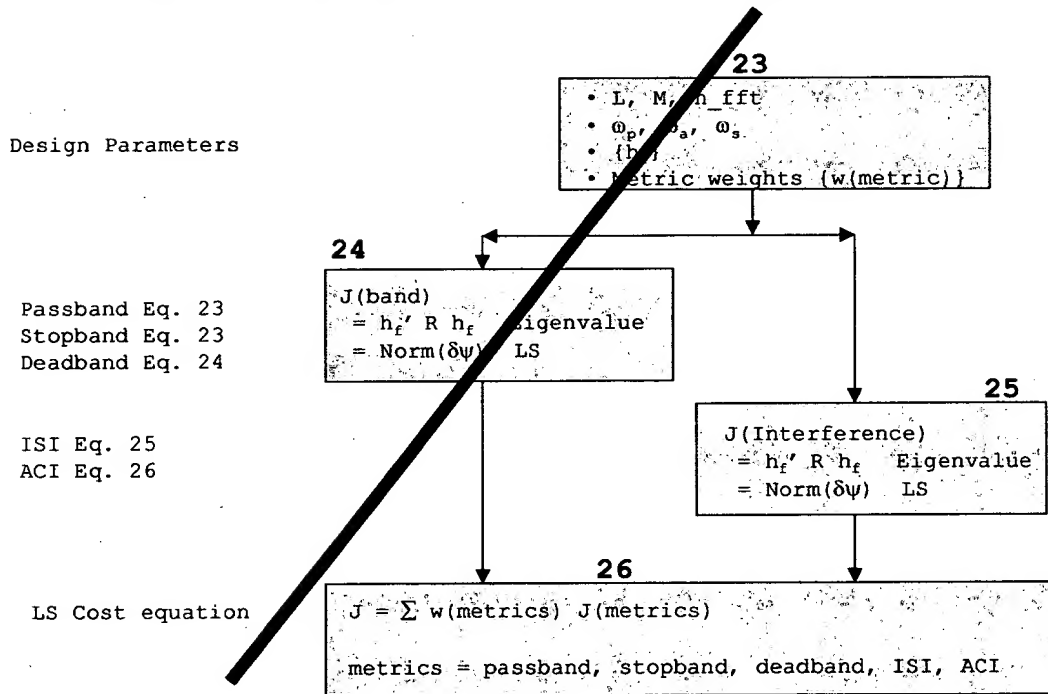
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FIG. 4 LS Metrics and Cost Function



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FIG. 5 LS Recursive Solution Algorithm

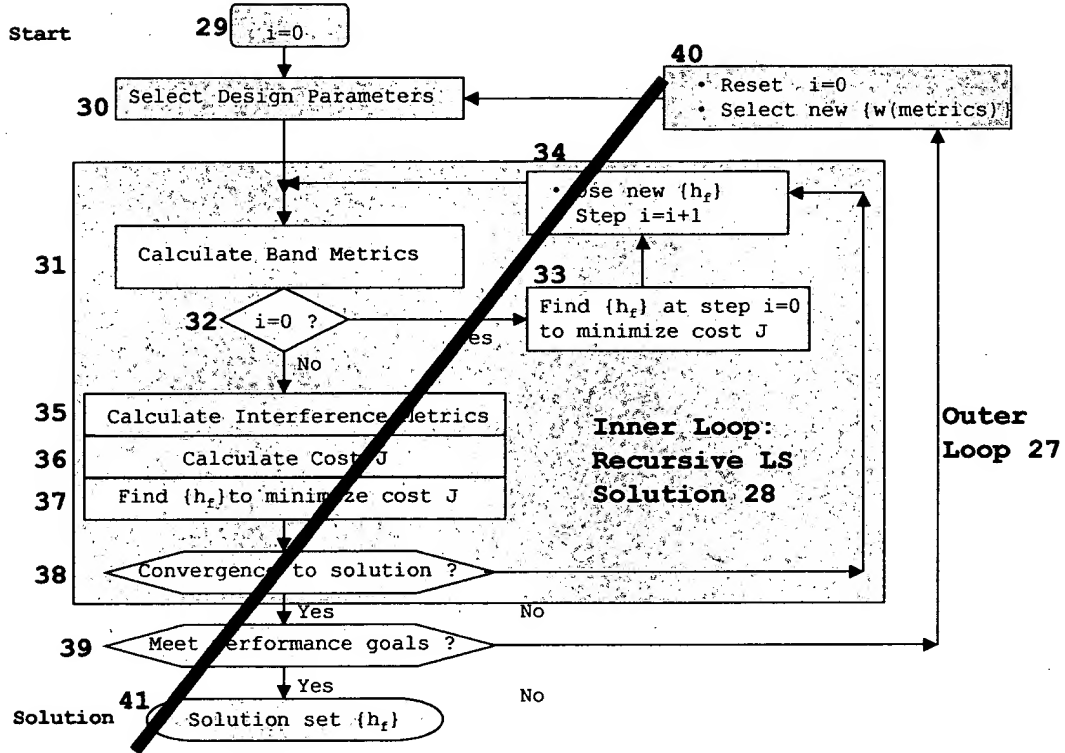
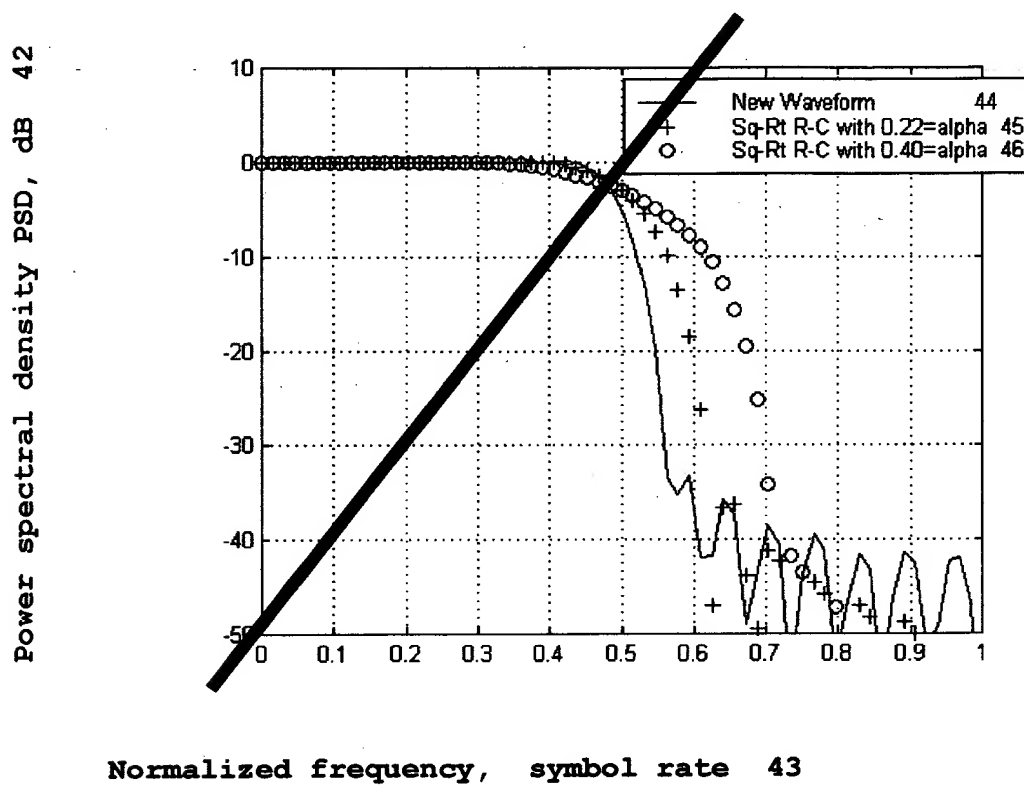


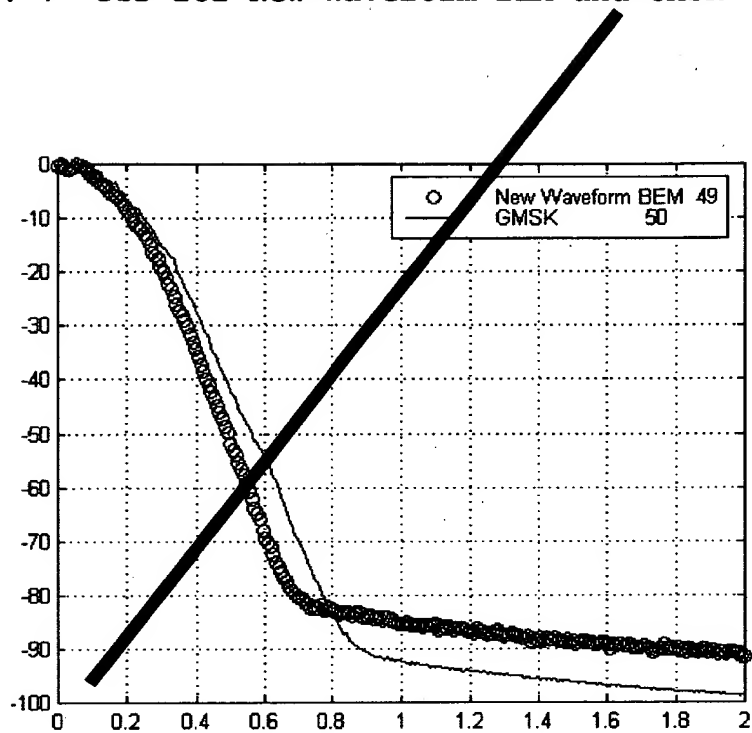
FIG. 6 PSD for New Waveform and Square-Root Raised-Cosine



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FIG. 7 PSD for New Waveform BEM and GMSK

Power spectral density PSD, dB 47



Normalized frequency, bit rate 48

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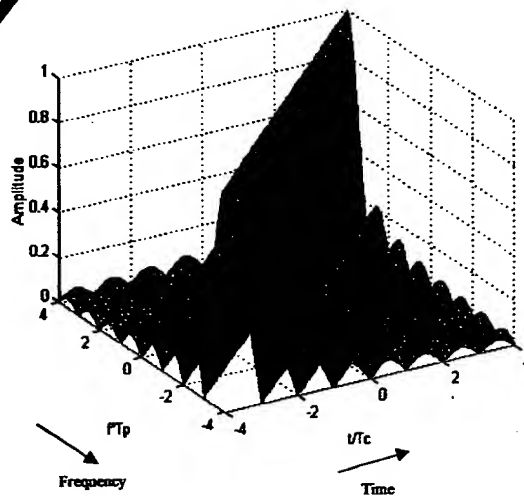
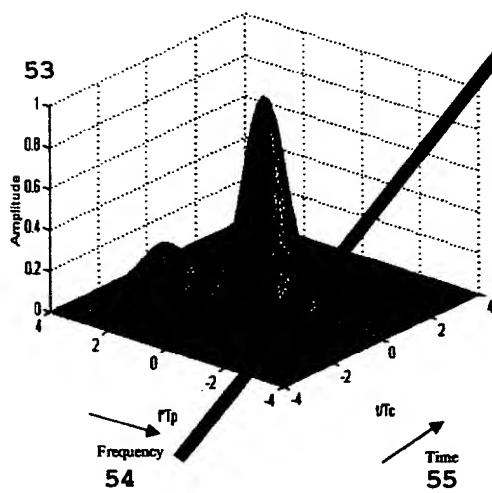
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FIG. 8 Radar Ambiguity Functions of New Waveform and Unweighted Chirp Waveform

New Wavelet Ambiguity Function 51

Unweighted Chirp Ambiguity Function 52



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